

CLAIMS

1 1. In a data processing system having a user terminal coupled to a data base management system
2 via a publically accessible digital data communication network, the improvement comprising:

- 3 a. a document containing a plurality of elements formatted in XML (extensible markup
4 language) transferred from said user terminal to said data base management system; and
5 b. an XML mapping tree via which the transformation of each of said plurality of elements
is defined. ^{said}

2 2. The improvement according to claim 1 wherein at least one of said plurality of elements
further comprises an attribute which is recorded within said XML mapping tree.

3 3. The improvement according to claim 2 wherein said document is defined by a Document Type
2 Definition (DTD).

1 4. The improvement according to claim 3 further comprising a storage space in which said XML
2 mapping tree is stored for future use.

1 5. The improvement according to claim 4 wherein said XML mapping tree is displayed on said
2 user terminal in a window.

1 6. An apparatus comprising:

2 a. an XML document;

3 b. a publically accessible digital data communication network;

4 c. a data base management system having an input format different from XML

5 responsively coupled to said publically accessible digital data communication network

6 which receives said XML document via said publically accessible digital data

7 communication network; and

8 d. an XML mapping tree responsively coupled to said data base management system

9 which parses said XML document into said input format of said data base management

10 system.

1 7. The apparatus of claim 6 wherein said XML mapping tree is stored for future use.

2 8. The apparatus of claim 7 wherein said XML document further comprises a plurality of
elements and at least one of said plurality of elements has an attribute.

1 9. The apparatus of claim 8 wherein said publically accessible digital data communication
2 system further comprises the Internet.

1 10. The apparatus of claim 9 wherein said XML mapping tree is hierarchical.

- 1 11. A method of interfacing an XML document to a data base management system having
2 an incompatible input protocol comprising:
3 a. transferring said XML document to said data base management system via a
4 publically accessible digital data communication network;
5 b. parsing said XML document into an XML mapping tree; and
6 c. presenting said parsed XML document to said data base management system for
7 processing.

- 1 12. A method according to claim 11 further comprising the set of saving said XML
2 mapping tree for future use.

- 1 13. A method according to claim 12 wherein said XML document is defined by a DTD.

- 1 14. A method according to claim 13 wherein said XML document further comprises a
2 plurality of elements and at least one element has an attribute.
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- 1 15. A method according to claim 14 wherein said publically accessible digital data
2 communication network further comprises the Internet.

- 1 16. An apparatus comprising:

- 2 a. means for transmitting an XML document;
- 3 b. means responsively coupled to said transmitting means for providing data base
- 4 management functions; and
- 5 c. means responsively coupled to said providing means for composing said XML
- 6 document from an XML mapping tree and data in said data base management
- 7 system.

1 17. An apparatus according to claim 16 wherein said composing means further comprises

2 means for storing said parsed XML document for future use.

1 18. An apparatus according to claim 17 wherein said XML document further comprises a

2 plurality of elements and at least one of said plurality of elements has an attribute.

1 19. An apparatus according to claim 18 wherein said transmitting means further comprises

2 the Internet.

1 20. An apparatus according to claim 19 further comprising means for displaying said XML

2 document.